

RECEIVED

JUN 26 2001 1646

TECH CENTER 1600/2900

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/730,465

DATE: 06/06/2001

TIME: 12:26:38

Input Set : A:\10274-006002.txt

Output Set: C:\CRF3\06062001\I730465.raw

ENTERED

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:

C--> 6 (i) APPLICANT: Wallner, Barbara P.
 7 Cooper, Kevin D.
 9 (ii) TITLE OF INVENTION: Method of Prophylaxis or Treatment of Antigen
 10 Presenting Cell Driven Skin Conditions Using
 11 Inhibitors of the CD2/LFA-3 Interaction
 13 (iii) NUMBER OF SEQUENCES: 8
 15 (iv) CORRESPONDENCE ADDRESS:
 16 (A) ADDRESSEE: LAHIVE & COCKFIELD
 17 (B) STREET: 60 State Street, Suite 510
 18 (C) CITY: Boston
 19 (D) STATE: Massachusetts
 20 (E) COUNTRY: USA
 21 (F) ZIP: 02109-1875
 23 (v) COMPUTER READABLE FORM:
 24 (A) MEDIUM TYPE: Floppy disk
 25 (B) COMPUTER: IBM PC compatible
 26 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 27 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 29 (vi) CURRENT APPLICATION DATA:
 C--> 30 (A) APPLICATION NUMBER: US/09/730,465
 C--> 31 (B) FILING DATE: 05-Dec-2000
 41 (vii) PRIOR APPLICATION DATA:
 34 (A) APPLICATION NUMBER: PCT/US92/08755
 35 (B) FILING DATE: 06-OCT-1992
 38 (A) APPLICATION NUMBER: US 07/862,022
 39 (B) FILING DATE: 12-APR-1992
 42 (A) APPLICATION NUMBER: US 07/770,969
 43 (B) FILING DATE: 07-OCT-1991
 45 (viii) ATTORNEY/AGENT INFORMATION:
 46 (A) NAME: Myers, Louis (PLM)
 47 (B) REGISTRATION NUMBER: 35,965
 48 (C) REFERENCE/DOCKET NUMBER: BGP-111CP
 50 (ix) TELECOMMUNICATION INFORMATION:
 51 (A) TELEPHONE: (617)227-7400
 52 (B) TELEFAX: (617)227-5941
 55 (2) INFORMATION FOR SEQ ID NO: 1:
 57 (i) SEQUENCE CHARACTERISTICS:
 58 (A) LENGTH: 753 base pairs
 59 (B) TYPE: nucleic acid
 60 (C) STRANDEDNESS: single
 61 (D) TOPOLOGY: linear
 63 (ii) MOLECULE TYPE: cDNA
 66 (ix) FEATURE:
 67 (A) NAME/KEY: CDS
 68 (B) LOCATION: 1..750

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/730,465
 DATE: 06/06/2001
 TIME: 12:26:38

Input Set : A:\10274-006002.txt
 Output Set: C:\CRF3\06062001\I730465.raw

```

70      (ix) FEATURE:
71          (A) NAME/KEY: sig_peptide
72          (B) LOCATION: 1..84
73
74      (ix) FEATURE:
75          (A) NAME/KEY: mat_peptide
76          (B) LOCATION: 85..750
77
78      (ix) FEATURE:
79          (A) NAME/KEY: misc_feature
80          (B) LOCATION: 1..750
81          (D) OTHER INFORMATION: /note= "Human transmembrane LFA-3"
82
83      (ix) FEATURE:
84          (A) NAME/KEY: misc_feature
85          (B) LOCATION: 646
86          (D) OTHER INFORMATION: /note= "Transmembrane domain"
87
88      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
89
90      1  ATG  GTT  GCT  GGG  AGC  GAC  GCG  GGG  CGG  GCC  CTG  GGG  GTC  CTC  AGC  GTG      48
91      Met  Val  Ala  Gly  Ser  Asp  Ala  Gly  Arg  Ala  Leu  Gly  Val  Leu  Ser  Val
92      93  -28      -25      -20      -15
93      95  GTC  TGC  CTG  CTG  CAC  TGC  TTT  GGT  TTC  ATC  AGC  TGT  TTT  TCC  CAA  CAA      96
94      Val  Cys  Leu  Leu  His  Cys  Phe  Gly  Phe  Ile  Ser  Cys  Phe  Ser  Gln  Gln
95      97      -10      -5      1
96      99  ATA  TAT  GGT  GTT  GTG  TAT  GGG  AAT  GTA  ACT  TTC  CAT  GTA  CCA  AGC  AAT      144
97      Ile  Tyr  Gly  Val  Val  Tyr  Gly  Asn  Val  Thr  Phe  His  Val  Pro  Ser  Asn
98      101  5      10      15      20
99      103  GTG  CCT  TTA  AAA  GAG  GTC  CTA  TGG  AAA  AAA  CAA  AAG  GAT  AAA  GTT  GCA      192
100     Val  Pro  Leu  Lys  Glu  Val  Leu  Trp  Lys  Lys  Gln  Lys  Asp  Lys  Val  Ala
101     105      25      30      35
102     107  GAA  CTG  GAA  AAT  TCT  GAA  TTC  AGA  GCT  TTC  TCA  TCT  TTT  AAA  AAT  AGG      240
103     Glu  Leu  Glu  Asn  Ser  Glu  Phe  Arg  Ala  Phe  Ser  Ser  Phe  Lys  Asn  Arg
104     109      40      45      50
105     111  GTT  TAT  TTA  GAC  ACT  GTG  TCA  GGT  AGC  CTC  ACT  ATC  TAC  AAC  TTA  ACA      288
106     Val  Tyr  Leu  Asp  Thr  Val  Ser  Gly  Ser  Leu  Thr  Ile  Tyr  Asn  Leu  Thr
107     113      55      60      65
108     115  TCA  TCA  GAT  GAA  GAT  GAG  TAT  GAA  ATG  GAA  TCG  CCA  AAT  ATT  ACT  GAT      336
109     Ser  Ser  Asp  Glu  Asp  Glu  Tyr  Glu  Met  Glu  Ser  Pro  Asn  Ile  Thr  Asp
110     117      70      75      80
111     119  ACC  ATG  AAG  TTC  TTT  CTT  TAT  GTG  CTT  GAG  TCT  CTT  CCA  TCT  CCC  ACA      384
112     Thr  Met  Lys  Phe  Phe  Leu  Tyr  Val  Leu  Glu  Ser  Leu  Pro  Ser  Pro  Thr
113     121  85      90      95      100
114     123  CTA  ACT  TGT  GCA  TTG  ACT  AAT  GGA  AGC  ATT  GAA  GTC  CAA  TGC  ATG  ATA      432
115     Leu  Thr  Cys  Ala  Leu  Thr  Asn  Gly  Ser  Ile  Glu  Val  Gln  Cys  Met  Ile
116     125      105      110      115
117     127  CCA  GAG  CAT  TAC  AAC  AGC  CAT  CGA  GGA  CTT  ATA  ATG  TAC  TCA  TGG  GAT      480
118     Pro  Glu  His  Tyr  Asn  Ser  His  Arg  Gly  Leu  Ile  Met  Tyr  Ser  Trp  Asp
119     129      120      125      130
120     131  TGT  CCT  ATG  GAG  CAA  TGT  AAA  CGT  AAC  TCA  ACC  AGT  ATA  TAT  TTT  AAG      528
121     Cys  Pro  Met  Glu  Gln  Cys  Lys  Arg  Asn  Ser  Thr  Ser  Ile  Tyr  Phe  Lys
122     133      135      140      145
123     135  ATG  GAA  AAT  GAT  CTT  CCA  CAA  AAA  ATA  CAG  TGT  ACT  CTT  AGC  AAT  CCA      576

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/730,465

DATE: 06/06/2001

TIME: 12:26:38

Input Set : A:\10274-006002.txt

Output Set: C:\CRF3\06062001\I730465.raw

```

136 Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro
137 150 155 160
139 TTA TTT AAT ACA ACA TCA TCA ATC ATT TTG ACA ACC TGT ATC CCA AGC 624
140 Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser
141 165 170 175 180
143 AGC GGT CAT TCA AGA CAC AGA TAT GCA CTT ATA CCC ATA CCA TTA GCA 672
144 Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala
145 185 190 195
147 GTA ATT ACA ACA TGT ATT GTG CTG TAT ATG AAT GGT ATT CTG AAA TGT 720
148 Val Ile Thr Thr Cys Ile Val Leu Tyr Met Asn Gly Ile Leu Lys Cys
149 200 205 210
151 GAC AGA AAA CCA GAC AGA ACC AAC TCC AAT TGA 753
152 Asp Arg Lys Pro Asp Arg Thr Asn Ser Asn
153 215 220
156 (2) INFORMATION FOR SEQ ID NO: 2:
158 (i) SEQUENCE CHARACTERISTICS:
159 (A) LENGTH: 250 amino acids
160 (B) TYPE: amino acid
161 (D) TOPOLOGY: linear
163 (ii) MOLECULE TYPE: protein
165 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
167 Met Val Ala Gly Ser Asp Ala Gly Arg Ala Leu Gly Val Leu Ser Val
168 -28 -25 -20 -15
170 Val Cys Leu Leu His Cys Phe Gly Phe Ile Ser Cys Phe Ser Gln Gln
171 -10 -5 1
173 Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn
174 5 10 15 20
176 Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala
177 25 30 35
179 Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg
180 40 45 50
182 Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr
183 55 60 65
185 Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp
186 70 75 80
188 Thr Met Lys Phe Phe Leu Tyr Val Leu Glu Ser Leu Pro Ser Pro Thr
189 85 90 95 100
191 Leu Thr Cys Ala Leu Thr Asn Gly Ser Ile Glu Val Gln Cys Met Ile
192 105 110 115
194 Pro Glu His Tyr Asn Ser His Arg Gly Leu Ile Met Tyr Ser Trp Asp
195 120 125 130
197 Cys Pro Met Glu Gln Cys Lys Arg Asn Ser Thr Ser Ile Tyr Phe Lys
198 135 140 145
200 Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro
201 150 155 160
203 Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser
204 165 170 175 180
206 Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala
207 185 190 195

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/730,465

DATE: 06/06/2001

TIME: 12:26:38

Input Set : A:\10274-006002.txt

Output Set : C:\CRF3\06062001\I730465.raw

```

209 Val Ile Thr Thr Cys Ile Val Leu Tyr Met Asn Gly Ile Leu Lys Cys
210                               200 205 210
212 Asp Arg Lys Pro Asp Arg Thr Asn Ser Asn
213                               215 220
215 (2) INFORMATION FOR SEQ ID NO: 3:
217 (i) SEQUENCE CHARACTERISTICS:
218 (A) LENGTH: 723 base pairs
219 (B) TYPE: nucleic acid
220 (C) STRANDEDNESS: single
221 (D) TOPOLOGY: linear
223 (ii) MOLECULE TYPE: cDNA
226 (ix) FEATURE:
227 (A) NAME/KEY: CDS
228 (B) LOCATION: 1..720
230 (ix) FEATURE:
231 (A) NAME/KEY: sig_peptide
232 (B) LOCATION: 1..84
234 (ix) FEATURE:
235 (A) NAME/KEY: mat_peptide
236 (B) LOCATION: 85..720
238 (ix) FEATURE:
239 (A) NAME/KEY: misc_feature
240 (B) LOCATION: 1..720
241 (D) OTHER INFORMATION: /note= "Human PI-linked LFA-3"
243 (ix) FEATURE:
244 (A) NAME/KEY: misc_feature
245 (B) LOCATION: 568..720
246 (D) OTHER INFORMATION: /note= "Signal sequence for
247 PI-linkage"
250 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
252 ATG GTT GCT GGG AGC GAC GCG GGG CGG GCC CTG GGG GTC CTC AGC GTG 48
253 Met Val Ala Gly Ser Asp Ala Gly Arg Ala Leu Gly Val Leu Ser Val
254 -28 -25 -20 -15
256 GTG TGC CTG CTG CAC TGC TTT GGT TTC ATC AGC TGT TTT TCC CAA CAA 96
257 Val Cys Leu Leu His Cys Phe Gly Phe Ile Ser Cys Phe Ser Gln Gln
258 -10 -5 1
260 ATA TAT GGT GTT GTG TAT GGG AAT GTA ACT TTC CAT GTA CCA AGC AAT 144
261 Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn
262 5 10 15 20
264 GTG CCT TTA AAA GAG GTC CTA TGG AAA AAA CAA AAG GAT AAA GTT GCA 192
265 Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala
266 25 30 35
268 GAA CTG GAA AAT TCT GAA TTC AGA GCT TTC TCA TCT TTT AAA AAT AGG 240
269 Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg
270 40 45 50
272 GTT TAT TTA GAC ACT GTG TCA GGT AGC CTC ACT ATC TAC AAC TTA ACA 288
273 Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr
274 55 60 65
276 TCA TCA GAT GAA GAT GAG TAT GAA ATG GAA TCG CCA AAT ATT ACT GAT 336

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/730,465

DATE: 06/06/2001

TIME: 12:26:38

Input Set : A:\10274-006002.txt

Output Set : C:\CRF3\06062001\I730465.raw

```

277 Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp
278      70      75      80
280 ACC ATG AAG TTC TTT CTT TAT GTG CTT GAG TCT CCA TCT CCC ACA      384
281 Thr Met Lys Phe Phe Leu Tyr Val Leu Glu Ser Leu Pro Ser Pro Thr
282 85      90      95      100
284 CTA ACT TGT GCA TTG ACT AAT GGA AGC ATT GAA GTC CAA TGC ATG ATA      432
285 Leu Thr Cys Ala Leu Thr Asn Gly Ser Ile Glu Val Gln Cys Met Ile
286      105      110      115
288 CCA GAG CAT TAC AAC AGC CAT CGA GGA CTT ATA ATG TAC TCA TGG GAT      480
289 Pro Glu His Tyr Asn Ser His Arg Gly Leu Ile Met Tyr Ser Trp Asp
290      120      125      130
292 TGT CCT ATG GAG CAA TGT AAA CGT AAC TCA ACC AGT ATA TAT TTT AAG      528
293 Cys Pro Met Glu Gln Cys Lys Arg Asn Ser Thr Ser Ile Tyr Phe Lys
294      135      140      145
296 ATG GAA AAT GAT CTT CCA CAA AAA ATA CAG TGT ACT CTT AGC AAT CCA      576
297 Met Glu Asn Asp Leu Pro Gln Lys Ile Gln Cys Thr Leu Ser Asn Pro
298      150      155      160
300 TTA TTT AAT ACA ACA TCA TCA ATC ATT TTG ACA ACC TGT ATC CCA AGC      624
301 Leu Phe Asn Thr Thr Ser Ser Ile Ile Leu Thr Thr Cys Ile Pro Ser
302 165      170      175      180
304 AGC GGT CAT TCA AGA CAC AGA TAT GCA CTT ATA CCC ATA CCA TTA GCA      672
305 Ser Gly His Ser Arg His Arg Tyr Ala Leu Ile Pro Ile Pro Leu Ala
306      185      190      195
308 GTA ATT ACA ACA TGT ATT GTG CTG TAT ATG AAT GGT ATG TAT GCT TTT      720
309 Val Ile Thr Thr Cys Ile Val Leu Tyr Met Asn Gly Met Tyr Ala Phe
310      200      205      210
312 TAA      723
315 (2) INFORMATION FOR SEQ ID NO: 4:
317 (i) SEQUENCE CHARACTERISTICS:
318 (A) LENGTH: 240 amino acids
319 (B) TYPE: amino acid
320 (D) TOPOLOGY: linear
322 (ii) MOLECULE TYPE: protein
324 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
326 Met Val Ala Gly Ser Asp Ala Gly Arg Ala Leu Gly Val Leu Ser Val
327 -28      -25      -20      -15
329 Val Cys Leu Leu His Cys Phe Gly Phe Ile Ser Cys Phe Ser Gln Gln
330      -10      -5      1
332 Ile Tyr Gly Val Val Tyr Gly Asn Val Thr Phe His Val Pro Ser Asn
333 5      10      15      20
335 Val Pro Leu Lys Glu Val Leu Trp Lys Lys Gln Lys Asp Lys Val Ala
336      25      30      35
338 Glu Leu Glu Asn Ser Glu Phe Arg Ala Phe Ser Ser Phe Lys Asn Arg
339      40      45      50
341 Val Tyr Leu Asp Thr Val Ser Gly Ser Leu Thr Ile Tyr Asn Leu Thr
342      55      60      65
344 Ser Ser Asp Glu Asp Glu Tyr Glu Met Glu Ser Pro Asn Ile Thr Asp
345      70      75      80
347 Thr Met Lys Phe Phe Leu Tyr Val Leu Glu Ser Leu Pro Ser Pro Thr

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/730,465

DATE: 06/06/2001

TIME: 12:26:39

Input Set : A:\10274-006002.txt

Output Set: C:\CRF3\06062001\I730465.raw

L:6 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]

L:30 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]

L:31 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]